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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/516,947 | 10/07/2005 | Noriaki Fujii | 107348-00449 | 4969 |
| 4372 ARENT FOX I | 7590 01/11/2008 LLP | · | EXAM | INER |
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| WASHINGTO | N, DC 20036 | | ART UNIT | PAPER NUMBER |
| | , | | 3748 | |
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| | | | 01/11/2008 | ELECTRONIC |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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DETAILED ACTION

This Office Action is in response to the amendment field on 11/01/07.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takenaka (JP '523) in view of Hiereth (US Patent 6,009,842).

Takenana discloses a valve-operating system (See Figs. 1-6) for an internal combustion engine, comprising a rocker arm (4) having a valve abutment at one end thereof abutting against an engine valve (v) and a cam abutment at the other end contacting with a valve-operating cam (7), and a pair of link arms (9, 10) each of which is supported at one end thereof on an engine body (E) for swinging movement about an axis parallel to a rotational axis for said valve-operating cam and connected at the other end directly to the other end of said rocker arm for relative turning movement about an axis parallel to said rotational axis, said one end of at least any one of said link arms being swingably supported on said engine body for continuous movement within a plane perpendicular to the rotational axis for said valve-operating cam; wherein said link arms are connected at the other ends in a row and relatively turnably to the other end of said rocker arm provided at one end thereof with said valve abutment; wherein one of said link arms closer to said valve-operating cam is swingably supported at one end thereof

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on the engine body in a fixed position, and one of said link arms farther from said valveoperating cam is swingably supported at one end thereof movable on the engine body; wherein one ends of said link arms are disposed on a side opposite from said engine valve with respect to the other ends of said link arms.

Takenaka discloses the invention as recited above, however, fails to disclose said rocker arm being formed to be gradually thicker from the valve abutment at the one end toward the cam abutment at the other end.

The patent to Hiereth on the other hand, teaches that it is conventional in the engine art, to utilize a (10) rocker arm being formed to be gradually thicker from the valve abutment at the one end toward the cam abutment at the other end (See Fig. 7).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have utilized the gradually thicker rocker arm as taught by Hiereth in the Takenaka device, since the use thereof would provide an improved engine train system with a more rigid rocker arm.

Allowable Subject Matter

3. Claims 4-9, and 12-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

4. Applicant's arguments with respect to claims 1-3, and 10-11 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the 6. examiner should be directed to Ching Chang whose telephone number is (571)272-4857. The examiner can normally be reached on M-Th, 7:00 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion can be reached on (571)272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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CHING CHANG
PRIMARY EXAMINER
TECHNOLOGY CENTER 3700